



PATENT  
P56909

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

CHEOL HEE MOON

Serial No.: 10/669,748

Examiner: COLON, GERMAN

Filed: 25 September 2003

Art Unit: 2879

For: PLASMA DISPLAY PANEL

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O.Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §1.56, and §§1.97 and 1.98 as amended, Applicant cites, describes, and provides copies of the following art references:

**FOREIGN PATENT REFERENCE:**

- Japanese Patent Publication No. 2001-291473 to Ko, *et al.*, entitled *REAR FACE SUBSTRATE OF AC DISCHARGE TYPE PLASMA DISPLAY PANEL*, published on 19 October 2001 (with English abstract).
- Japanese Patent Publication No. 2002-245943 to Morikawa, *et al.*, entitled *PLASMA DISPLAY PANEL*, published on 30 August 2002 (with English abstract).

**DISCUSSION**

**Ko JP'473**, according to the Chinese Office action issued on 24 February 2006 in applicant's Chinese patent application Serial No. 03164979.3, discloses that the rear face substrate 31 is provided with a plurality of barrier ribs 34 arranged along the perpendicular direction Y and a plurality of low barrier ribs 35 arranged to have an interval mutually along the horizontal direction

X. The discharge space 41 is formed between the low barrier rib 35 and the barrier rib 34 that are contiguous so that the height of the low barrier rib 35 is made lower than that of the height of the barrier rib 34 so as to apply whole phosphor 36 required for five faces of the discharge space 41. By enlarging the operation voltage in the non-discharging space by using the low barrier rib 35, improper discharge can be avoided, and the dimension of the non-discharging space is reduced so that the area of the discharge space 41 is increased and brightness of luminescence and the contrast can be effectively enhanced.

**Morikawa JP'943**, discloses that regions in a gridded cell forming barrier rib including parallel barrier ribs 3 and orthogonal barrier ribs 4 are defined as a plurality of cells. The plurality of cells are classified into a plurality of discharge cells 6 and a plurality of non-discharge cells 7 both arrayed staggeringly, and the non-discharge cells 7 are provided, in the middle, with a dividing barrier rib 5 as an auxiliary barrier rib traversing two parallel barrier ribs 3 in a direction parallel to the orthogonal barrier ribs 4. The dividing barrier ribs 5 have a structural characteristic of having a smaller burning shrinkage in a film thickness direction than the parallel barrier ribs 3 and the orthogonal barrier ribs 4, so that even when the parallel barrier ribs 3, the orthogonal barrier ribs 4 and the dividing barrier ribs 5 are substantially formed to the same film thickness before a burning process, the dividing barrier ribs 5 are about several to ten micrometers higher than the parallel barrier ribs 3 and the orthogonal barrier ribs 4 after the burning process.

Pursuant to 37 CFR §1.97(d), the undersigned attorney hereby certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three (3) months prior to the filing of the statement.

The citation of the foregoing references is not intended to constitute an assertion that other or more relevant art does not exist. Accordingly, the Examiner is requested to make a wide-ranging and thorough search of the relevant art.

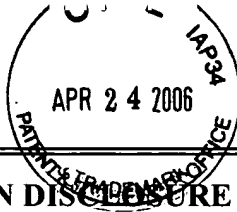
Pursuant to 37 C.F.R. §1.97(c)(2), the fee set forth under 37 C.F.R. §1.17(p) of \$180.00 accompanies this Information Disclosure Statement. Should the check become lost, be deficient in payment, or should other fees be incurred, the Commissioner is authorized to charge Deposit Account No. 02-4943 of Applicant's undersigned attorney in the amount of such fees.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read "R. E. Bushnell", is written over a horizontal line.

Robert E. Bushnell  
Reg. No.: 27,774  
Attorney for the Applicant

1522 "K" Street, N.W., Suite 300  
Washington, D.C. 20005  
Area Code: (202) 408-9040  
Folio: P56909  
Date: 4/24/06  
I.D.: REB/ks

**INFORMATION DISCLOSURE STATEMENT****PTO-1449 (PAGE 1 OF 1)****SERIAL NUMBER** 10/669,748**DOCKET NO.** P56909**APPLICANT** CHEOL HEE MOON**FILING DATE** 25 September 2003**GROUP** 2879**U.S. PATENT DOCUMENTS**

EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE

**FOREIGN PATENT DOCUMENTS****TRANSLATION**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	JP 2001-291473	10/01	JAPAN			Abstract	
	JP 2002-245943	08/02	JAPAN			Abstract	

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)**


**EXAMINER:****DATE CONSIDERED:**

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.*

**FEE TRANSMITTAL**

Patent fees are subject to annual revision.

**Complete If Known**

Application Number	10/669,748
Filing Date	25 September 2003
First Named Inventor	CHEOL HEE MOON
Examiner Name	COLON, GERMAN
Group/Art Unit	2879
Attorney Docket No.	P56909

TOTAL AMOUNT OF PAYMENT

(\$)**180.00****METHOD OF PAYMENT (check one)****1. ■ Payment Enclosed:****(CHECK #50746)**
☒ Check ☐ Credit Card ☐ Money Order  
☐ Other
☐ Charge Any Additional Fee Required Under 37 C.F.R. §1.16 and 1.17.☐ Applicant claims small entity status. See 37 CFR 1.27**2. ■ The Commissioner is hereby authorized to charge any deficiency and credit any over payments to:**Deposit Account Number: **02-4943****FEE CALCULATION**

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
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**EXTENSION OF TIME FEES**

1251	120	2251	60	Extension for reply within first month	\$
1252	450	2252	225	Extension for reply within second month	\$
1253	1020	2253	510	Extension for reply within third month	\$
1254	1590	2254	795	Extension for reply within fourth month	\$
1255	2160	2255	1080	Extension for reply within fifth month	\$

**APPEAL**

1401	500	2401	250	Notice of Appeal	\$
1402	500	2402	250	Filing a brief in support of an appeal	\$
1403	1000	2403	500	Request for oral hearing	\$

**CLAIMS**

1201	200	2201	100	Independent claims in excess of 3	\$
1202	50	2202	25	claims in excess of 20	\$

Other Fee (specify) \_\_\_\_\_ \$

Other Fee (specify) \_\_\_\_\_ \$

Other Fee (specify) \_\_\_\_\_ \$

**SUBTOTAL: LEFT COLUMN \$ 0.00****FEE CALCULATION**

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
<b>MISCELLANEOUS</b>					
1801	\$790	2801	\$395	Request for continued examination (RCE)	\$
1806	\$180			Submission of an IDS	\$180.00
1814	\$130	2814	\$65	Statutory disclaimer	\$
8021	\$40			Recordation of assignment per property	\$

**TRADEMARK**

6001/7001		\$335	Application for registration, per class	\$
6002/7002		\$100	Amendment to Allege Use, per class	\$
6003/7003		\$100	Statement of Use, per class	\$
6004/7004		\$150	Request for six-month extension of time, per class	\$
6205/7205		\$100	\$8 affidavit, per class	\$
6208/7208		\$200	\$15 affidavit, per class	\$
6201/7201		\$400	Application for renewal, per class	\$
6403/7403		\$100	Ex parte appeal, per class	\$

**PETITION**

1462		\$400	Petitions to Director (Group I)	\$	
1463		\$200	Petitions to Director (Group I)	\$	
1464		\$130	Petitions to Director (Group II)	\$	
1452	\$500	2452	\$250	Petitions to revive unavoidably abandoned application	\$
1453	\$1500	2453	\$750	Petitions to revive unintentionally abandoned application	\$

**PATENT MAINTENANCE**

1551	\$900	2551	\$450	Due at 3.5 years	\$
1552	\$2300	2552	\$1150	Due at 7.5 years	\$
1553	\$3800	2553	\$1900	Due at 11.5 years	\$

Other Fee (specify) \_\_\_\_\_ \$

Other Fee (specify) \_\_\_\_\_ \$

Other Fee (specify) \_\_\_\_\_ \$

**SUBTOTAL: RIGHT COLUMN \$ 180.00****SUBMITTED BY****Complete (if applicable)**

Typed or Printed Name

**Robert E. Bushnell, Esq.**

Reg. Number

**27,774**

Signature

Date

**24 April 2006**

Deposit Account User ID

REB/ks

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